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(54) Title: APPARATUS AND METHODS FOR SELECTING CAPACITATED SPERMATOZOA AND USES THEREOF

(57) Abstract: The present invention relates to apparatus, systems and methods for generating a subpopulation of spermatozoa enriched for capacitated spermatozoa, by exposure of a population of spermatozoa to a suitable temperature gradient, and retrieving the enriched subpopulation of spermatozoa for further applications, such as, for diagnosis or fertility treatments.